
< Recent Builds

Atelier MongoDB, Docker, React, Webpack, Babel

- Scaled a legacy codebase with a monolithic system by splitting into micro services
- Built dockerized & horizontally scaled server system, stress tested with load balancing for up to 10K users. Prioritized one service then integrated the web server.
- Built client-side e-commerce store with modern front-end using React

Bear Maps Java, Spark, OpenStreetMapsAPI

- Wrote a Java backend to create a Google Maps style mapping application for the UC Berkeley campus and its immediate surroundings.
- Used the A* heuristic shortest path algorithm in conjunction with a custom-built min-heap to efficiently route the user to their destination.
- Leveraged the trie data structure for point of interest search autocompletion, a K-D tree for finding the closest node on the map, and built an API router to handle user requests, map resizing, and automatic rastering.

Machine Python, numpy, pandas

- Compared models to learn tradeoffs between approaches to predictive modeling
- Trained neural net to predict with 98% accuracy the tumors found in the dataset

PokeDB SQL, JavaScript, NodeJS

- Designed and built a custom SQL Database for a web app to allow users to identify niche HM-slaves based on key features. Users are able to create their ideal party.
- Used the PokeAPIV2 to perform ETL. UI offers a toggle between two views.

< Education

Hack Reactor 2022 - 2023 Full-Stack Software Engineering

UC Berkeley 2017 - 2021 Bachelor's Data Science

< Industry

Cibus 2021 - Present Senior LIMS Research Associate

- Scaled Trait Machine efficiency by 4-10x by leading design, integration, and testing of L7's ESP Application at Cibus. Work in tandem with L7 developers and Cibus research and production managers to identify requirements, test, and optimize the solution.
- Released the first Power BI workspace and worked with L7 Director of BI to design and develop the data model from the PostgreSQL DB, and ship the first BI reports.

SigmaPoint Technologies 2020 Quality Engineer Co-op

- Retired silo'd internal QMS app by configuring PLM module to handle QMS processes
- Built automated QMS metrics & KPI monitoring dashboard within D365